

SLC29A1 / ENT1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS16421

Specification

SLC29A1 / ENT1 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q99808
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50kDa KDa

SLC29A1 / ENT1 Antibody (Internal) - Additional Information

Gene ID 2030

Other Names

Equilibrative nucleoside transporter 1, Equilibrative nitrobenzylmercaptapurine riboside-sensitive nucleoside transporter, Equilibrative NBMPR-sensitive nucleoside transporter, Nucleoside transporter, es-type, Solute carrier family 29 member 1, SLC29A1, ENT1

Target/Specificity

SLC29A1 antibody is human specific. SLC29A1 antibody is predicted to not cross-react with other SLC29 proteins.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

SLC29A1 / ENT1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC29A1 / ENT1 Antibody (Internal) - Protein Information

Name SLC29A1 ([HGNC:11003](#))

Synonyms ENT1

Function

Uniporter involved in the facilitative transport of nucleosides and nucleobases, and contributes to maintaining their cellular homeostasis (PubMed:[8986748](http://www.uniprot.org/citations/8986748), PubMed:[10755314](http://www.uniprot.org/citations/10755314), PubMed:[12527552](http://www.uniprot.org/citations/12527552), PubMed:[10722669](http://www.uniprot.org/citations/10722669), PubMed:[21795683](http://www.uniprot.org/citations/21795683), PubMed:[35790189](http://www.uniprot.org/citations/35790189)

href="http://www.uniprot.org/citations/27995448" target="_blank">27995448, PubMed:17379602, PubMed:14759222, PubMed:15037197, PubMed:26406980). Functions as a Na(+)-independent transporter (PubMed:8986748). Involved in the transport of nucleosides such as adenosine, guanosine, inosine, uridine, thymidine and cytidine (PubMed:8986748, PubMed:10755314, PubMed:12527552, PubMed:10722669, PubMed:17379602, PubMed:14759222, PubMed:15037197, PubMed:26406980). Also transports purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:21795683, PubMed:27995448). Mediates basolateral nucleoside uptake into Sertoli cells, thereby regulating the transport of nucleosides in testis across the blood-testis barrier (By similarity). Regulates inosine levels in brown adipocytes tissues (BAT) and extracellular inosine levels, which controls BAT-dependent energy expenditure (PubMed:35790189).

Cellular Location

Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized to the basolateral membrane of Sertoli cells (PubMed:23639800). Localized to the cell membrane of erythrocytes (PubMed:23219802, PubMed:11584005).

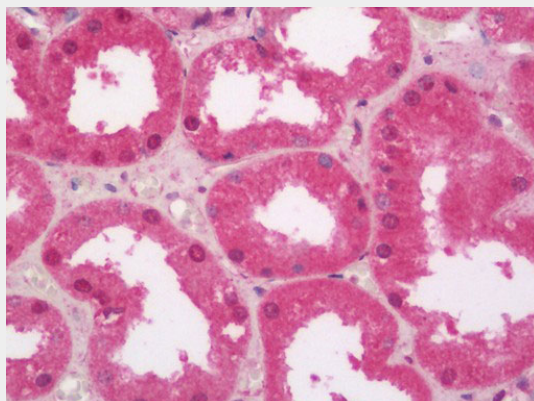
Tissue Location

Expressed in testis at the blood-testis barrier (at protein level) (PubMed:23639800). Detected in erythrocytes (at protein level) (PubMed:23219802, PubMed:11584005). Expressed at relatively high levels in cerebral cortex, particularly the frontal and parietal lobes, and the thalamus and basal ganglia (at protein level) (PubMed:11311901). In the midbrain expressed at moderate levels, whereas in the other areas of the brainstem, namely medulla and pons, cerebellum and the hippocampus expressed at lower amounts when compared to the other brain regions (at protein level) (PubMed:11311901) Expressed in Langerhans cells and lymphocytes in the pancreas (at protein level) (PubMed:15501974). Expressed in kidney, in polarized renal epithelial cells (PubMed:12527552). Expressed in adipose tissues (PubMed:35790189). Expressed in placenta (PubMed:8986748). Expressed in small intestine (PubMed:10755314).

SLC29A1 / ENT1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC29A1 / ENT1 Antibody (Internal) - Images

Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

SLC29A1 / ENT1 Antibody (Internal) - Background

Mediates both influx and efflux of nucleosides across the membrane (equilibrative transporter). It is sensitive (ES) to low concentrations of the inhibitor nitrobenzylmercaptapurine riboside (NBMPR) and is sodium-independent. It has a higher affinity for adenosine. Inhibited by dipyridamole and dilazep (anticancer chemotherapeutics drugs).

SLC29A1 / ENT1 Antibody (Internal) - References

- Griffiths M., et al. Nat. Med. 3:89-93(1997).
Graham K.A., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Lum P.Y., et al. Cancer Chemother. Pharmacol. 45:273-278(2000).
Sankar N., et al. Nucleic Acids Res. 30:4339-4350(2002).
Mangravite L.M., et al. Am. J. Physiol. 284:F902-F910(2003).